Scientific Notation: a shorthand way of writing numbers that are very small or very large

0.000 000 000 000 000 321

187 000 000 000 000

To put into scientific notation, we follow 4 steps:
1) move decimal to the right of the first non-zero number
2) count how many time the decimal moved3) write out significant numbers, followed by "x 10 ^{n}" where n = the number counted in step 2
4) if the original number is less than 1, make the exponent (-)

A Standard is a system of units that have meaning to a group of people

- Body parts - cubit, span, hand, foot, yard
- English Standard Units
  - length - inch, feet, yard, rod, furlong, mile
  - volume - oz, tsp, tbsp, cup, pint, quart, half-gallon, gallon, peck, bushel

The international system of units!
Also called the metric system
developed to be a world-wide standard
easy to use
one unit per variable
one set of prefixes

length: meter (m)
volume: Liter (L)
mass: gram (g)
time: second (s)
force: Newton (N)
power: Watt (W)
energy: Joule (J)

The prefixes make things bigger or smaller!

Letter	Prefix Name	Value
	Peta	
	Tera	
	Giga	
	Mega	
	kilo	
	base	
	*centi	
	milli	
	micro	
	nano	
	pico	
	femto	

For homework:

- ◯ Do Problems "A"
- ◯ Bring back your signed Pre-AP Parent Compact form
- ◯ Your parent contact form (bottom part only)
- ◯ Sign your parents up for the phone texting

2nd Block only: also

- ◯ School/parent/school compact form (signed)
- ◯ Use of technology permission slip
- ◯ Code of conduct acknowledgement form